

**Scope of Work**  
**14156 - SH 13 Corridor Reconstruction – Moffat County**  
**North of Craig to Wyoming State Line**

**Description**

---

SH 13 in Moffat County from MP 111.0 (21 mi north of Craig) to 127.9 (Wyoming State Line) shall be improved to include shoulders, horizontal and vertical alignment adjustments, design of climbing and passing lanes, slope stabilization, various structures, wildlife over/underpasses, and replacement of existing drainage structures. To the extent practicable, the design team is encouraged to consider preservation of the existing roadway template to enhance constructability, traffic handling, and economy.

The Consultant shall provide specialty engineering support as part of a blended team effort. CDOT shall be responsible for Right of Way plans and clearances; utility clearances; and environmental clearances. Unless identified as a task to be performed by CDOT, the Consultant shall be responsible for the tasks identified under the Scope of Work.

All work under this Task Order is anticipated to be completed by December 31, 2015.

**Scope of Work**

---

The Consultant shall provide design support as requested. All work shall be in accordance with CDOT's manuals, standards, and generally accepted practices.

Provide FIR, FOR and final stamped plans and specifications for all of the work described herein.

**Roadway Design**

Provide roadway design support associated with the reconstruction of SH 13 from MP 111.0 to MP 127.99. The road design shall seek to utilize the existing road sections to the greatest extents possible while correcting any horizontal and vertical alignments to meet a design speed of 65 mph. Where the grade of the existing road can be replicated, a "saddle-bag" structural section of the roadway shall be used for the creation of the new roadway template. The existing road template consists of 12' lanes with shoulders ranging from 0' – 4'. The proposed road template shall have 8' shoulders and appropriate clear zone.

The Consultant shall provide phasing plans including any needed detour construction plans, constructability reports, and independent plan review for the various corridor projects if requested by CDOT.

Design support shall be required on an "on-call" basis to assist and mentor the CDOT designers during the development of alignment and profile, roadway geometry, modeling, and as needed during the development of the SH 13 corridor projects.

**Traffic**

Perform traffic engineering; signing and striping design; layout of acceleration, deceleration, passing, and climbing lanes; detours; construction traffic control plans; and tabulations.

**Hydraulics**

Provide hydraulic analysis on the drainage basins and existing crossing drainage structures and provide recommendations and documentation for sizing of proposed drainage structure improvements in a Report or Technical Memo format; develop structure cross sections and calculate quantities for all minor structure items; and complete the Pipe Selection Memo.

**Environmental**

Environmental support work shall be performed by CDOT to include: prepare and submit the categorical exclusion; prepare and submit necessary permits; obtain required environmental clearances; and environmental mapping. The Consultant shall incorporate supplied information into project drawings and/or specifications. The Consultant shall coordinate and incorporate the final environmental information into the construction plans and prepare Storm Water Management Plans.

**Survey**

Survey has been completed for the referenced SH 13 corridor. Additional "on-call" surveying may be required where supplemental surveying is required. The Consultant shall provide on-call surveying as directed.

**Right-of-way**

CDOT shall provide Right-of-way plans and any necessary property negotiations and transfers. The Consultant shall coordinate and incorporate the final ROW information into the construction plans.

**Utilities**

Based on the survey provided by CDOT, the Consultant shall identify utility conflicts and necessary relocations. CDOT shall provide any necessary agreements and negotiations with the utility companies. The Consultant shall coordinate and incorporate the final utility information into the construction plans.

**Geotechnical Engineering and Materials**

CDOT shall provide the pavement design and associated material recommendations and requirements.

Roadway cuts and fills are anticipated along the corridor alignment. The Consultant shall provide geotechnical borings up to 50' in depth as required for design that shall include soil profile, blow counts, soil properties and classification, and water table information where required.

The Consultant shall prepare stamped plans and specifications for the slope and/or wall design in the vicinity of the pond located at 113.5.

**Structures**

The Consultant shall design various structures (bridges, retaining walls, CBC's, wildlife over/underpasses, etc.) and provide drawings and specifications.

CDOT Staff Bridge shall provide a peer-review of the structure designs.

**Additional Services**

Provide additional work on other tasks as directed by CDOT.

**Quality Assurance/ Quality Control Checks**

Provide QA and QC checks on all work performed by the Consultant. Provide additional QC checks or reviews of work performed by others as requested by CDOT.

**Schedule**

Within the first month of receiving the Notice to Proceed, the Consultant shall work with the CDOT Project Manager to develop a delivery schedule of prioritized and future tasks. The schedule shall be maintained and updated on a monthly basis and shall be submitted as part of the billing package.

**Project Meetings**

Attend the Scoping, FIR, FOR meetings in Craig. Attend additional design meetings as needed.